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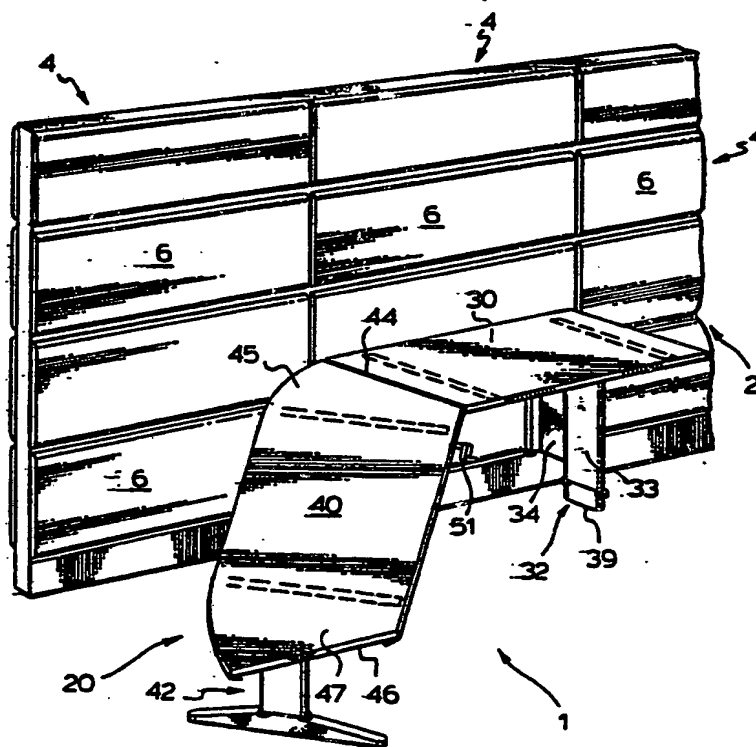
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(54) Title: DESKING SYSTEM



(57) Abstract

The present invention relates to a combined desking (20) and panelling (2) system which provides an effective means for subdividing office space and defining work areas. Work surfaces (30) are provided and can be independently supported or supported by the panelling system. Power and communication wires and cables are distributed through and between the desking and panelling systems.

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TITLE: DESKING SYSTEMFIELD OF THE INVENTION

5 The present invention relates to office panelling systems and to desking systems. In particular, the invention relates to a combination panelling and desking system.

BACKGROUND OF THE INVENTION

10 Office panelling systems are now recognized as one of the best approaches for subdividing office space into individual work units or cells due to the flexibility of such systems to be changed to meet changing needs as well as the ability of the system to be dissembled and moved to
15 other sites. Panelling systems now have the capability of conveniently providing high capacity power to particular work stations as well as allowing the distribution of communication wires and the like to work stations.

TEKNION* office panelling systems have gained wide
20 acceptance in the marketplace and the structure of this panelling system is generally shown in United States Patent 4,535,577, which is incorporated herein by reference. This system has individual office panels interconnected, with each office panel having an interior frame which supports
25 decorative or functional cover elements to the exterior of the frame. Various horizontal channels are provided for securing of office accessories, such as work surfaces and overhead bins. This panelling system has gained wide acceptance in the marketplace and provides power at desk
30 height.

Panelling systems which support work surfaces to either side thereof are the most common system in North America, whereas in Europe, the approach has been to provide a desking system which is capable of supporting
35 panels or partitions thereon. These two alternative

*TEKNION - trademark of TEKNION FURNITURE SYSTEMS

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approaches each have advantages and disadvantages. For example, in some cases, it is desirable to have a number of work surfaces laid out in a particular arrangement without any panels associated therewith. In other cases, it is
5 desirable to merely subdivide the space without the need for work surfaces. In the first case, a desking system is more desirable, whereas in the second case, a panelling system is more desirable. These systems, because of the different principles involved, operate basically
10 independently of the other type of system. There remains a need to provide a system which addresses the various demands of the marketplace while accommodating the ability to readily alter any work space environment. There also remains a need to provide a system where the storage of
15 additional components is reduced.

SUMMARY OF THE INVENTION

A system for dividing an open area into working arrangements, according to the present invention, comprises
20 a number of interconnected panels supporting work surfaces to the sides thereof and a desking arrangement having as part thereof supported work surfaces, wherein the work surfaces of the system are interchangeable and can be supported by either the desking arrangement or the panels.

25 According to an aspect of the invention, the work surfaces are releasably supported and can be removed or installed without requiring tools.

According to yet a further aspect of the invention, the system includes a supply of work surfaces of various
30 configurations, with this supply of work surfaces accommodating changes in the work surface configuration of the overall system. With this arrangement, the support structure for supporting the work surfaces either to a panel or the supports for defining work surfaces of the
35 desking arrangement conveniently releasably support the work surfaces, such that the work surfaces are readily interchangeable with other work surfaces, whereby greater

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flexibility is possible. With this arrangement, only the work surfaces or an extra supply of work surfaces need to be stored as opposed to a complete supply of desks.

Furthermore, with this arrangement, the support structure
5 for the work surfaces can be knocked down, thus reducing storage difficulties.

According to another aspect of the invention, a number of the work surfaces include at least one end configuration for at least partially defining a transition
10 in the longitudinal axis of the work surface, which transition occurs between two adjacent work surfaces.

In the past, separate junction members have been used to join two separate work surfaces. It has been found that work surfaces, at least partially defining a
15 transition or fully defining a transition such that the transition is integral with the work surface, simplify the overall system and allow for great flexibility in modifying the layout to meet specialized needs.

A combination office panelling and office desking system, according to the present invention, comprises
20 office panels supporting on one side thereof work surfaces which cooperate with work surfaces of the office desking system to define continuous or interrelated work surfaces at the transition between work surfaces of the panelling
25 system and the desking system. The panelling system includes means for supporting the work surfaces and the desking system includes means for supporting the work surfaces, with these work surfaces being supported by either the panelling system or the desking system.

30 According to an aspect of the invention, the distribution of electrical power and/or communication wiring is easily accomplished and can pass from panel to desking system or desking system to panel.

According to a preferred aspect of the invention,
35 the electrical power and communication wiring are each maintained interior to the panelling system or the desking system.

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According to yet another aspect of the invention the electrical and communication cables can be laid in place without threading through the desking system.

The invention also relates to a system for subdividing in open areas by means of panels and desking arrangements which have cooperating working surfaces at desk height whereby the work surface is non-disjunctive at points of transition between work surface supported by panels and work surfaces supported by said desking arrangement.

A desking system according to the present invention has a number of desks cooperating to define as work surface arrangement. At least one of the desks has two opposed telescopic leg arrangements interconnected by a beam assembly fixedly secured to the lower telescopic sections and defining a modesty panel of the at least one desk. The beam assembly includes an open channel means for having laid therein wires, cables and/or power cables. The at least one desk has means for varying the height of a work surface supported by said telescopic legs. The means for varying telescoping said legs as required to vary the height of said work surface, whereby the work surface is of variable height and the height of said connecting beam remains fixed.

BRIEF DESCRIPTION OF THE DRAWINGS

Preferred embodiments of the invention are shown in the drawings, wherein:

Figure 1 is a partial perspective view of the combination office panelling and desking system;

Figure 2 is a partial perspective view showing securement of a working surface to the panelling system;

Figure 3 is a vertical view showing securement of one support member to the frame of an office panelling system;

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Figure 4 is a partial perspective view showing one arrangement for securing of a support arrangement to the frame of an office panel;

Figure 5 is a top view showing a combination office panelling and desking system;

Figure 5A is a perspective view showing a floor plate locking the angular relationship of two adjacent feet of the desking system;

Figure 6 is a perspective view showing one support arrangement of the desking system having associated therewith an electrical power feed arrangement;

Figure 7 is a vertical section of one of the support arrangements for the desking system;

Figure 8 is a partial sectional view showing securement of the work surfaces of the support arrangement;

Figure 9 is a rear view of one desk of the desking system;

Figure 10 is a perspective view of a height adjustable monitor support table; and

Figure 11 is a sectional view of the central support of the monitor support table with covers.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

The combination office panelling and desking system 1 shown in the drawings comprises an office panelling system, generally shown as 2, made up of individual office panels 4 all interconnected and which interact to support one another. The individual office panels 4 have removable cover or functional elements 6 supported to one side of a panel frame 8. Securing channels 10, shown in Figure 3, are accessible at the horizontal junction between stacked cover or functional elements 6.

The desking system is generally shown as 20 and is the portion of the system which is supported independently of the panelling system 2. Work surface 40 is directly supported by the desking system 20 by means of support arrangements 42. The ends 44 and 46 of the work surface 40

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have as part thereof transition segments 45 and 47. These transition segments accommodate a change in direction of the longitudinal axis of the work surfaces 30 and 40.

Work surface 30 is supported by the panelling system and the support arrangement 32 which is connected directly to a panel 4. Each support arrangement 32 engages a panel and also includes a support surface 39 engaging the floor. The support arrangement 32 includes legs 33, rearwardly extending connecting sections 34, a panel engaging bracket 36 at the top and bottom of the rearwardly extending connection section 34, with each panel engaging bracket 36 having a hook 37 and a rotatable cam 38 pivoted atop the bracket around a pivot pin 39. As shown in Figure 3, the bracket 36 has its hook received within the channel 10 of a frame with the channel having a lower lip 12. The hook is thus trapped behind the lower lip by means of the cam 38 which is rotated and forced into engagement with the top surface of the channel 10 or the rear surface of the channel 10. The hook 37 becomes trapped within the channel and, thus, positively engages the support arrangement 32 with the channels 10 of the panels 4. These support arrangements 32 with the cam in a release position, are free to slide along the length of the channel and be at any place along the length of the channel. This provides great freedom with respect to the use of these support structures and allows appropriate placement of these support arrangements 32 in accordance with the particular legs of the work surface being supported. Details of this engagement and of the support arrangement 32 are shown in Figures 2, 3 and 4.

The combined office panelling and desking system is partially shown in Figure 5 where it can be seen that the panelling system 2 is extending in a generally straight line defined by the individual connected panels 4 and have associated therewith a work surface 30 supported from the panels 4. Work surface 30 includes a transition section 31 which mates with the work surface 40 adjacent thereto.

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Work surface 40 is supported by the desking system and the individual legs shown in dotted lines and running from adjacent the front edge of work surface 40 to the back edge of work surface 40. Work surface 40a includes a transition segment 41 which cooperates with surface 40 to provide a further change in direction of the longitudinal axis of the work surface defined collectively by work surface 30, work surface 40 and work surface 40a. It should be noted that the transitional segments 31 and 41 are integral with the respective work surfaces. Thus, it can be seen that a smooth transition has been provided between the work surfaces supported from the panel and a separate section where the work surface is supported by the desking system 20 defined by the two abutting work surfaces. In the lower righthand portion of the Figure, a separate desk supporting work surface 40b has been provided. Thus, it can be seen that the desking system can support individual working surfaces, such as 40b, or it can cooperate and support other work surfaces 40 and 40a. The segments 35 associated with work surface 30 are supports attached at the top of legs 33 and preferably releasably engage rails on the underside of the work surface.

A raised pedestal work surface 40c is shown and details of that support arrangement are illustrated in Figure 10.

The desking system includes a foot bracket 45 shown in Figure 5A which engages the each foot 66 of adjacent leg supports 42 whereby adjacent feet of support legs can be mechanically fixed. Various different floor plates can be provided for different angular relationships. These floor plates also simplify initial installation. This serves to retain the abutting relationship of adjacent work surfaces whereby the work surfaces are not directly connected one to the others. The connecting conduit 90 mechanically interconnects the structure of the lower support legs, providing a further mechanical connection retaining the predetermined relationship. In this way, adjacent legs of

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the desking system are mechanically engaged at two vertical positions while allowing the height of adjacent work surfaces to be independently varied.

5 With the arrangement the work surfaces need not be the same level and can be independently adjusted in height as may be required for particular function.

Each desk unit includes a beam assembly 70 which forms a modesty panel. Connecting conduits 90 form an extension of the modesty panel and mechanically connect one
10 such modesty panel to an adjacent modesty panel or an office panel. Further details are shown in Figure 6.

One unit of the desking system 20 is shown in Figure 6. Leg members 42 are positioned to either side of the work surface 40 and comprise a lower telescopic leg
15 section 60 and upper telescopic leg section 62. The upper telescopic leg section supports a work surface engaging member 64 and preferably releasably engages a work surface in the manner shown in Figures 7 and 8. The lower telescopic leg sections 60 are interconnected by a
20 connecting beam assembly 70. The beam assembly 70 includes a hinged front panel 72, a lower connecting member 74, a horizontal intermediate connecting member 76 and an upper horizontal connecting member 78. Member 76 accommodates the power feed 80 as it passes through the desking system,
25 with horizontal connecting member 78 accommodating power outlet receptacles 82. Horizontal connecting member 74 would typically accept communication type wires which are normally spaced from the power electrical feed 80.

The hinged front panel 72 is notched in the center
30 thereof to partially expose power receptacle 82 and allow convenient access thereto. The front panel is hinged downwardly as shown in Figure 6 for laying in of armoured cable and communication wiring.

A power feed 84 for office or other equipment is
35 shown in Figure 6 connected to the power outlet receptacle 82. The user can easily make this connection by lowering panel 72, exposing receptacle 82. The connecting beam 70

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also includes a hinged back panel 86. It can be seen that when the front panel 72 is in a vertical or closed position, such as shown in Figure 7, the front panel hides the structural features of the connecting beam assembly and the various power feeds that run therethrough or electrical connections made therein. The power feed 80 is introduced to the beam assembly adjacent the lower edge thereof and the various components allow for the feeding of cables without stringing through the system. A number of slots are provided where the horizontal connecting members join with the lower telescopic sections to accommodate the transition of electrical power and communication cables behind lower telescopic leg section 60. In some cases, it may be desirable to introduce the feed between cooperating lower telescopic sections, which is also possible and the beam assembly can have feed ports or slots appropriately spaced for feeding of wires and the like interior of the connecting beam assembly 70. The lower telescopic leg section 60 includes a removable cover arrangement 61 through which a power feed can enter the interior of the leg and gain access to the beam assembly 70. Also shown in Figure 6 is a connecting conduit 90 which runs between adjacent lower telescopic leg sections and by means of which the power feed 80 is concealed.

The intermediate connecting member 76 has notches 77 at either end thereof creating a gap between the lower telescopic leg section 61 and the ends of the intermediate member 76. These gaps allow cables and armoured cable to pass therethrough to enter, leave or vary levels within the beam assembly. Such wires, cables, armoured cable and the like may be laid in the appropriate channel or tray from behind the beam assembly without threading through ports thus simplifying installation. Even concealment of cables by passing upward behind the removable arms of the lower telescopic leg sections without threading as the covers are removable. Similarly connecting conduit 90 can have a

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longitudinal open section through which wires, cables and the like may pass and lay therein.

The rear panel 86 can hinge open as indicated in Figure 7 to provide improved access to the beam assembly from behind which is useful in laying in of cables, wires and the like to the desking system. With this arrangement the height of the work surface can be changed while the height of the beam assembly remains fixed. This is also true of the connecting conduit and overcomes problems where trays or channels are directly connected to the work surfaces.

The component of the desking system shown in Figures 6 and 7 is hydraulically adjustable in height and the user can easily adjust the height of the work surface 40 for his particular needs or the particular function being carried out. Adjustment is carried out by operating crank handle 51 (Figure 1) which in turn adjusts hydraulic cylinders associated with the telescopic leg sections, as generally shown in Figure 10.

The work surface 40 is preferably held in engagement with the work surface engaging members 64 by a spring detente arrangement, generally shown as 100. This spring detente includes a movable piston 101 which is spring biased and engages an engaging rib 102 on the lower surface of the work surface. This has been found to provide positive securement of the work surface to the support arrangement, while also allowing the user to conveniently remove the work surface without requiring any specialized tools. In most cases, a strong upward pull on the work surface will result in disengagement when piston 101 includes a camming surface to cause disengagement of the piston as the work surface is urged upwardly. With this arrangement, the work surface may be reversed, if desired, to define the opposite transition or a new work surface may be secured.

The engaging ribs 102 provided at either edge or close to the edge of the work surfaces 40 can also be used

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to receive accessories, such as the hydraulic adjustment arrangement 106 shown in Figure 10. This hydraulic adjustment arrangement also includes a spring detente arrangement 102 at either end thereof which can be used for
5 securing of this adjustment arrangement beneath the work support surface. The hydraulic adjustment arrangement 106 includes a hydraulic fluid tube 108 connected to the hydraulic cylinder 110 having displaceable piston 112. The hydraulic cylinder and piston are connected between
10 telescopic leg sections of the central support of work surface 40c. With this arrangement, the inner telescopic section 114 of the leg arrangement 113 telescopes within the lower telescopic section 116. Lower telescopic section 116 is secured by bracket member 118 to the base 120. The
15 hydraulic adjustment arrangement 106 may be secured to the work surface 40, shown in Figure 5, and allows the user to adjust the height of the work surface 40c when operating the hydraulic adjustment arrangement 106 secured beneath work surface 40. This is particularly useful with respect
20 to a monitor stand which can be positioned behind work surface 40. It can also be appreciated that this type of hydraulic adjustment arrangement can be used to operate to telescopic legs of the desking arrangement of Figure 6. Preferably, a single hydraulic arrangement controls both
25 legs.

The individual office panels 4 have various outlet ports adjacent the base thereof by means of which electrical power feeds can leave a panel 4 and eventually enter the desking system 20. In this way, power can be
30 brought to the desking system through a panelling system or power can be brought through the desking system to the panelling system. In any event, both the panelling system and the desking system can accommodate electrical power feeds therebetween. The various work surfaces 40 can
35 cooperate with either the support arrangement for the office panels 4 or for the independent support arrangements of the desking system. In order to simplify modification

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and/or changes, the desking system has separable work surfaces. This reduces the amount of overall storage necessary for defining additional work surfaces and allows for convenient transition from one longitudinal axis of the work surface to another, as certain working surfaces have included therewith a transitional segment which has a somewhat cantilevered arrangement relative to the support arrangements of either the panel or the desking system. Support of this transitional segment from the work surface of either the panelling system or the desking system, again, simplifies the system and reduces installation problems.

Although various preferred embodiments of the present invention have been described herein in detail, it will be appreciated by those skilled in the art, that variations may be made thereto without departing from the spirit of the invention or the scope of the appended claims.

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THE EMBODIMENTS OF THE INVENTION IN WHICH AN EXCLUSIVE
PROPERTY OR PRIVILEGE IS CLAIMED ARE DEFINED AS FOLLOWS:

1. A system for dividing an open area into work
5 arrangements comprising a number of interconnected panels
supporting work surfaces to the sides thereof, and a
desking arrangement having as part thereof supported work
surfaces, wherein said work surfaces are interchangeable
and can be supported by either said desking arrangement or
10 said panels.
2. A system as claimed in claim 1 wherein said work
surfaces are releasably supported and can be removed or
installed without requiring tools.
- 15 3. A system as claimed in claim 1 including a supply
of work surfaces of various configurations, said supply of
work surfaces accommodating changes in the work surface
configuration of the overall system defined by the work
20 surfaces supported by the panels and the work surfaces
supported by said desking arrangement.
4. A system as claimed in claim 3 wherein a number of
said work surfaces include one end configuration having a
25 transition segment defining at least part of a transition
in the longitudinal axis of the work surface which
transition occurs between two adjacent work surfaces.
5. A system as claimed in claim 4 wherein said work
30 surfaces are maintained in engagement with support means of
said panels and support means of said desking system in a
manner to be releasable therefrom without requiring tools.
6. A system as claimed in claim 5 wherein said work
35 surfaces are maintained in engagement with support means of
said panels and support means of said desking system by a

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spring detente arrangement and releasable therefrom by applying an upward force on said work surfaces.

7. A system as claimed in claim 5 wherein said transition segments are integral with one of the work surfaces.

8. A system as claimed in claim 7 wherein said transition segments are at least primarily supported in a cantilevered arrangement by the support arrangement of the respective work surface.

9. A system as claimed in claim 8 wherein said transition segments can collectively define a transition selected from the group of 15°, 30°, 45°, 60°, 90°, 120°, 135°, 150°, and 180°.

10. A system as claimed in claim 1 wherein electrical power and or communication feeds are interconnected and pass through the panel and the desking arrangements when required.

11. A system for subdividing office space comprising office panels and a desking arrangement which cooperate to define certain areas requiring panels, certain areas requiring panels and associated work surfaces and certain areas requiring work surfaces without panels, and wherein power cables and communication cables are each protected and distributed through the system interior to the office panels and desking arrangement and power is available at a working surface of a particular panel or desking arrangement by connection to power receptacles associated with the respective panel or desking arrangement.

12. A system as claimed in claim 11, said system includes work surface interconnecting said panels and said desking arrangement and each work surface is partially

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defined by work segments supported by panels and partially defined by work segments supported by desking arrangements.

13. A system as claimed in claim 12 wherein at least
5 some of said work surfaces include a junction where the work surface form a transition from panel to desking arrangement and at a different point has a further transition from desking arrangement to the panel.
- 10 14. A system as claimed in claim 13 including a power supply following the layout of said at least some work surfaces and being received in the respective panels and desking arrangement.
- 15 15. A desking system having a number of desks cooperating to define a work surface arrangement, each desk having two opposed leg arrangements interconnected by a beam assembly fixedly secured to said leg arrangements and defining a modesty panel of said desk, said beam assembly
20 including an open channel means for having laid therein wires, cables and/or power cables; at least one of said desks having leg arrangements in the form of a lower member cooperating with an upper member to form a telescopic relationship therebetween, said lower member being attached
25 to said beam assembly, said at least one desk further including means for varying the height of a work surface supported by said telescopic legs; said means for varying, telescoping said legs as required to vary the height of said work surface, whereby the work surface is of variable
30 height and the respective connecting beam remains at a fixed height.
16. A desking system as claimed in claim 15 wherein each beam assembly is at a height and is of a size to form
35 a modesty panel for the respective desk.

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17. A desking system as claimed in claim 15 wherein said open channel means is horizontally segmented to define a power cable support channel and a separate communication cable support channel.

5

18. A desking system as claimed in claim 17 wherein support channels are notched at the ends to allow vertical passage of cables within the beam assembly.

10

19. A desking system as claimed in claim 18 wherein said telescopic legs include removable covers on the lower section, said removable covers being sized to accommodate therein a power supply cable and allow said power supply to enter adjacent the base of the respective leg and exit at said beam assembly thereby partially concealing said power supply cable.

15

20. A desking system as claimed in claim 18 wherein said beam assembly includes a hinged front panel removable from a closed position concealing said support channels to an open position allowing full access to said support channels.

20

21. A desking system as claimed in claim 20 wherein said beam assembly includes power receptacles accessible on an exterior surface of said beam assembly and wired to a power supply.

25

22. A desking system as claimed in claim 18 wherein adjacent desks are mechanically connected at feet of adjacent legs and by mechanical connection between adjacent beam assemblies.

30

23. A combination office panelling system and office desking system comprising office panels supporting to one side thereof work surfaces which cooperate with work surfaces of said office desking system to define continuous

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working surfaces at the transition between work surfaces of said panelling system and said desking system, said panelling system including means for supporting said work surfaces and said desking system including means for supporting said working surfaces and wherein said work surfaces may be supported by either said panelling system or said desking system.

24. A system for subdividing office space by means of office panels supporting work surfaces to at least one side thereof and a desking arrangement having work surfaces, said system for subdividing office space including at least one location having a work surface supported by said panels which cooperates with work surfaces supported by said desks to form a working extension of said work surface supported by said panels which working extension is supported by said desk arrangement, said work surfaces and said working extension cooperating to form a non-interrupted work surface supported in some locations by panels and in other locations by said desking arrangement with the junction between the work surfaces supported by said panels and the work surfaces supported by said desking arrangement being non disjunctive.

25. In a system as claimed in claim 24 wherein a power supply forms a power supply junction between said desking arrangement and an adjacent panel of said panels, whereby a power supply passes through both the panels and the desking arrangement.

26. In a system as claimed in claim 24 wherein said panels and said desking arrangement each include separate channels for electrical power supply and communication cables.

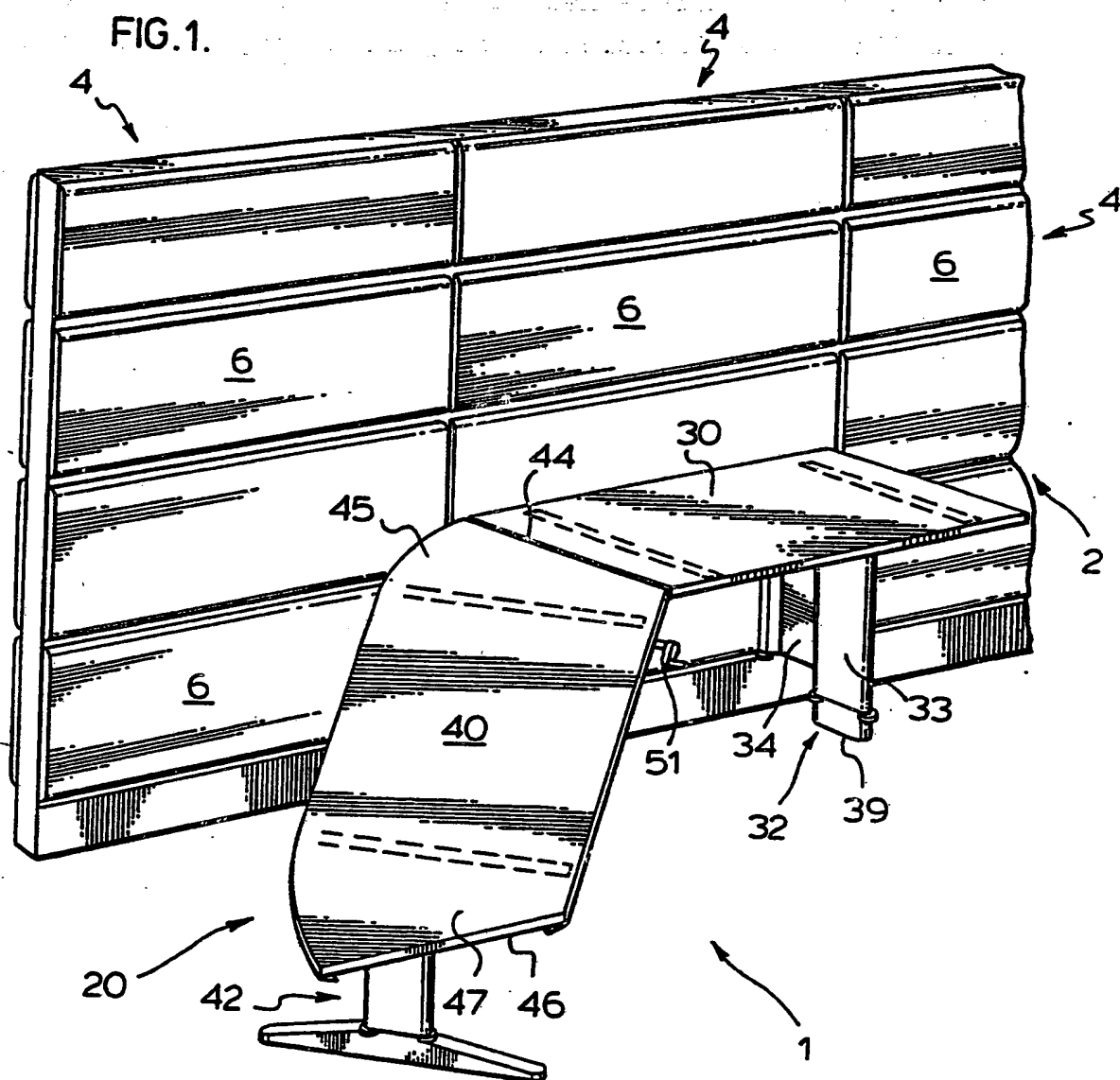
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27. In a system as claimed in claim 24 wherein said work surfaces are removable in segments without detachment from adjacent segments.

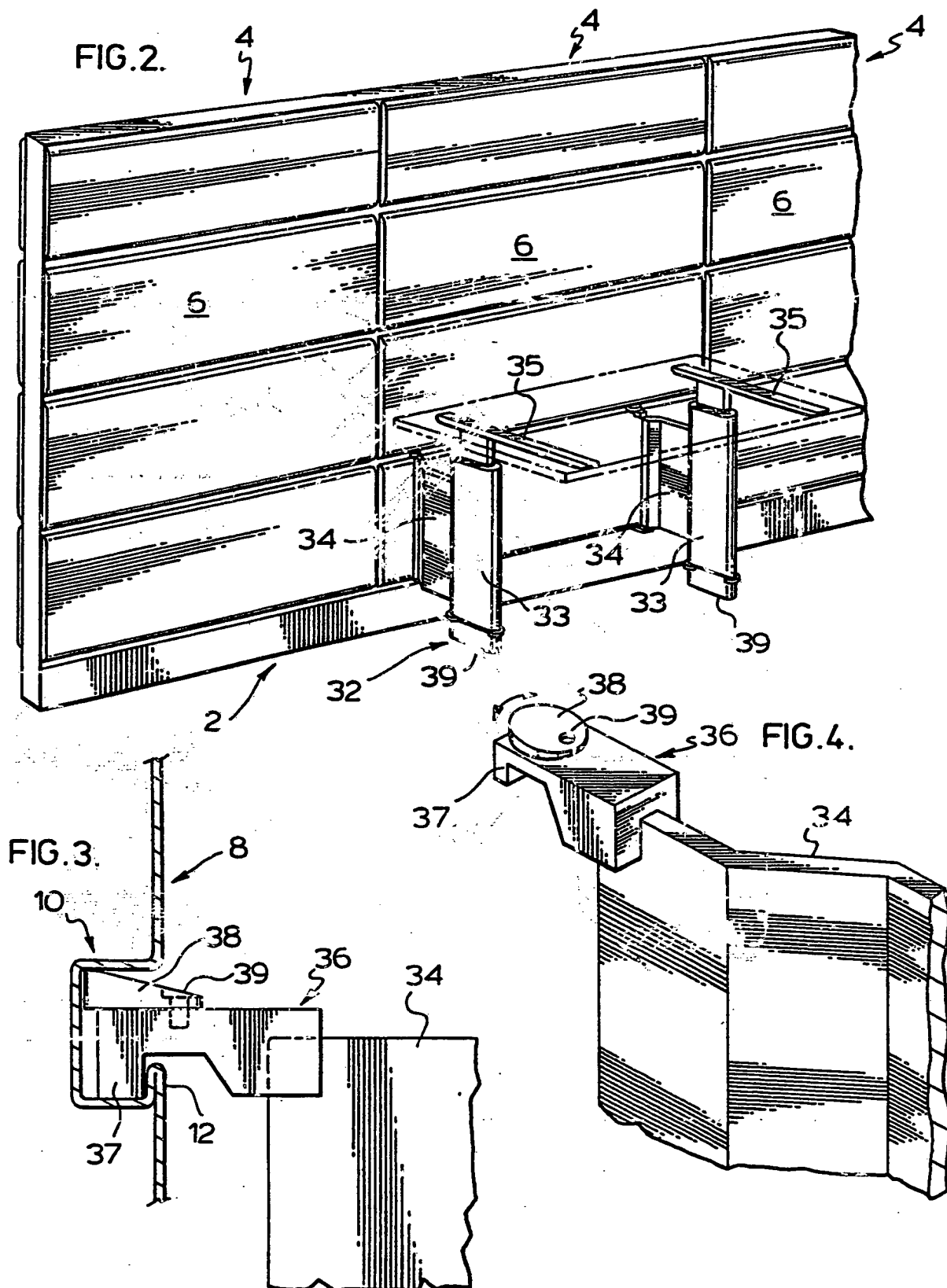
5 28. In a system as described in claim 27 wherein said segments at the junction of the work surfaces supported by said panels and the work surfaces supported by said desking arrangement are maintained in alignment by means of a floor plate fixing the location of support arrangement of said
10 work surfaces.

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FIG. 1.



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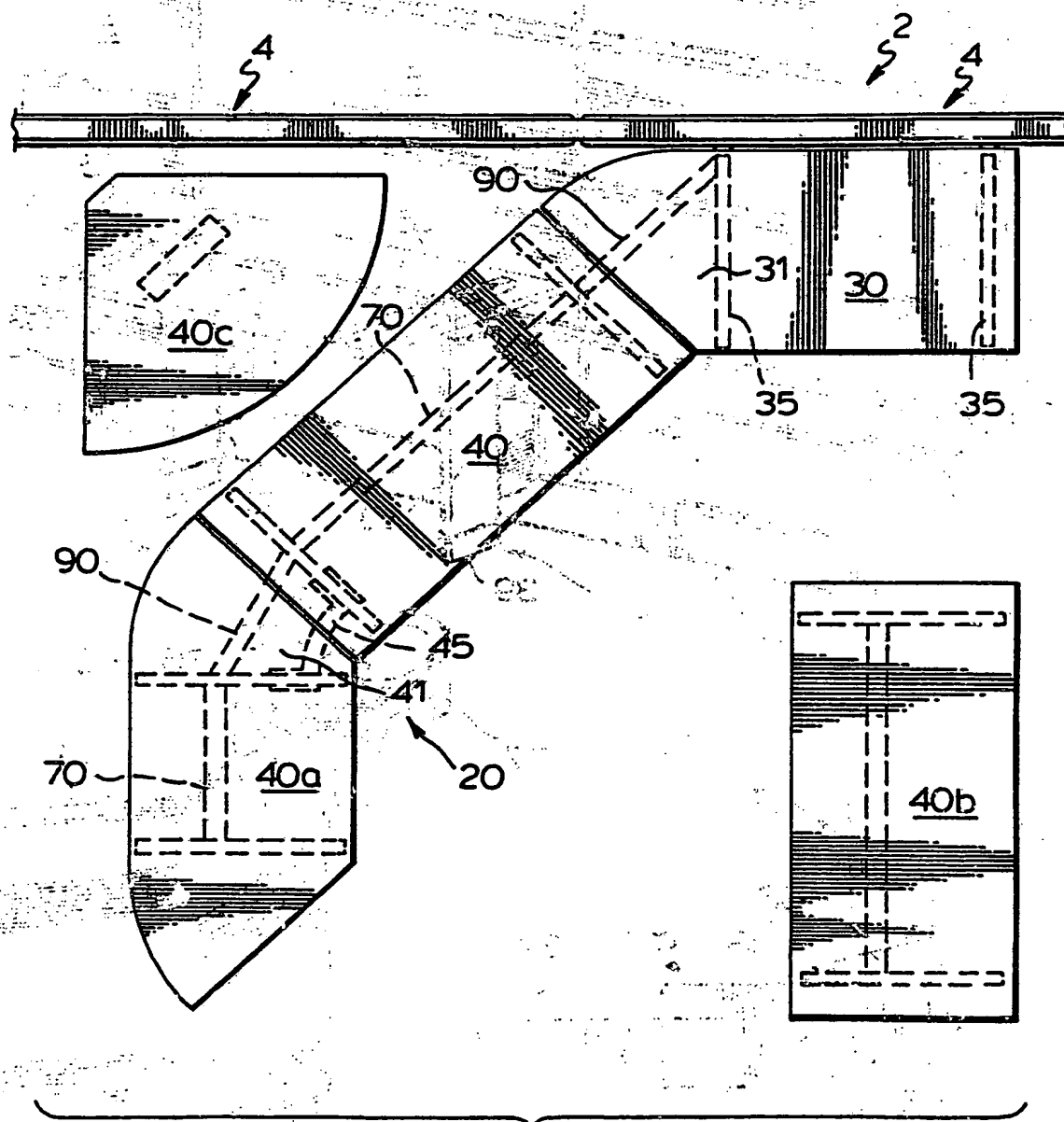
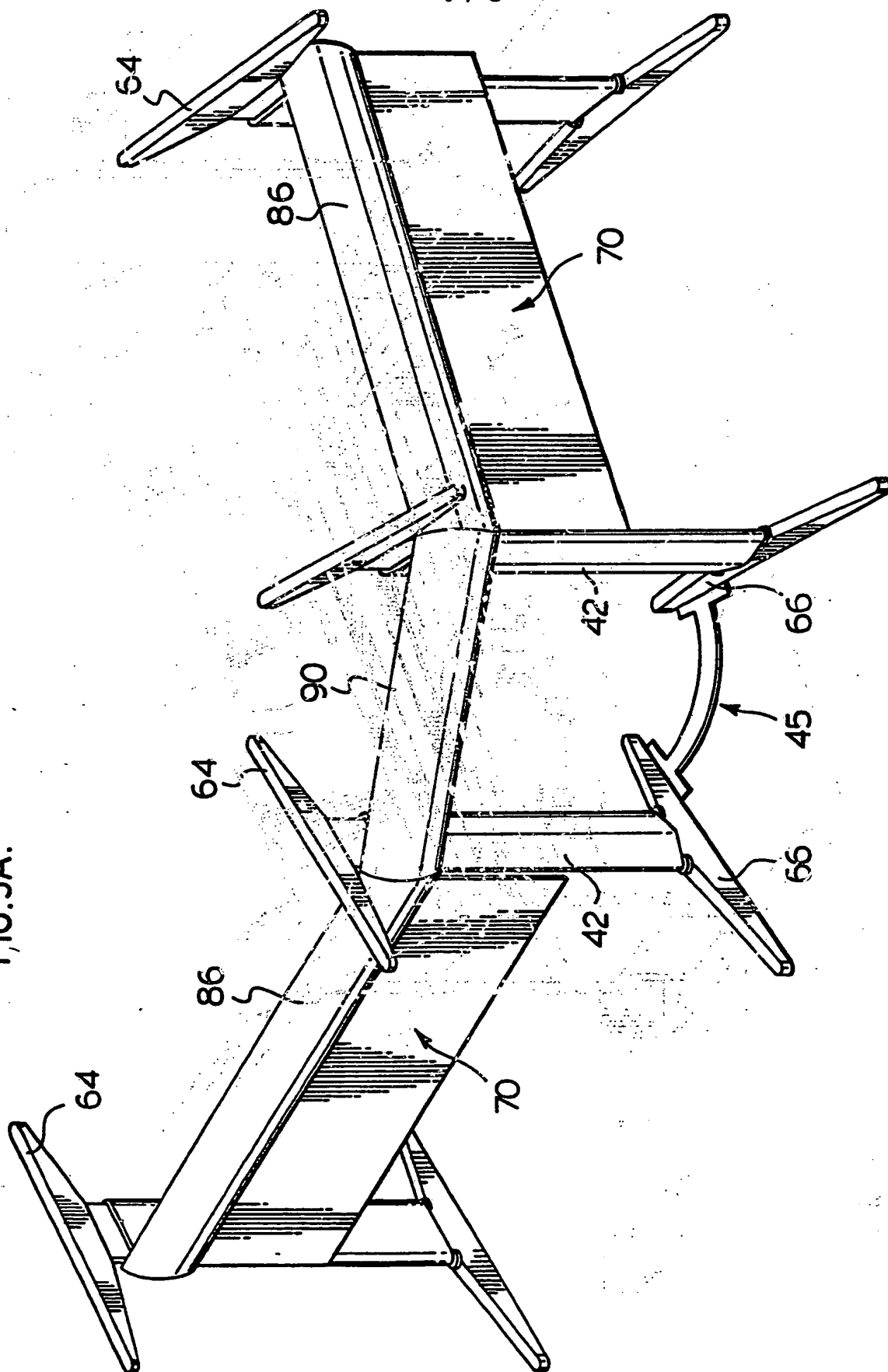
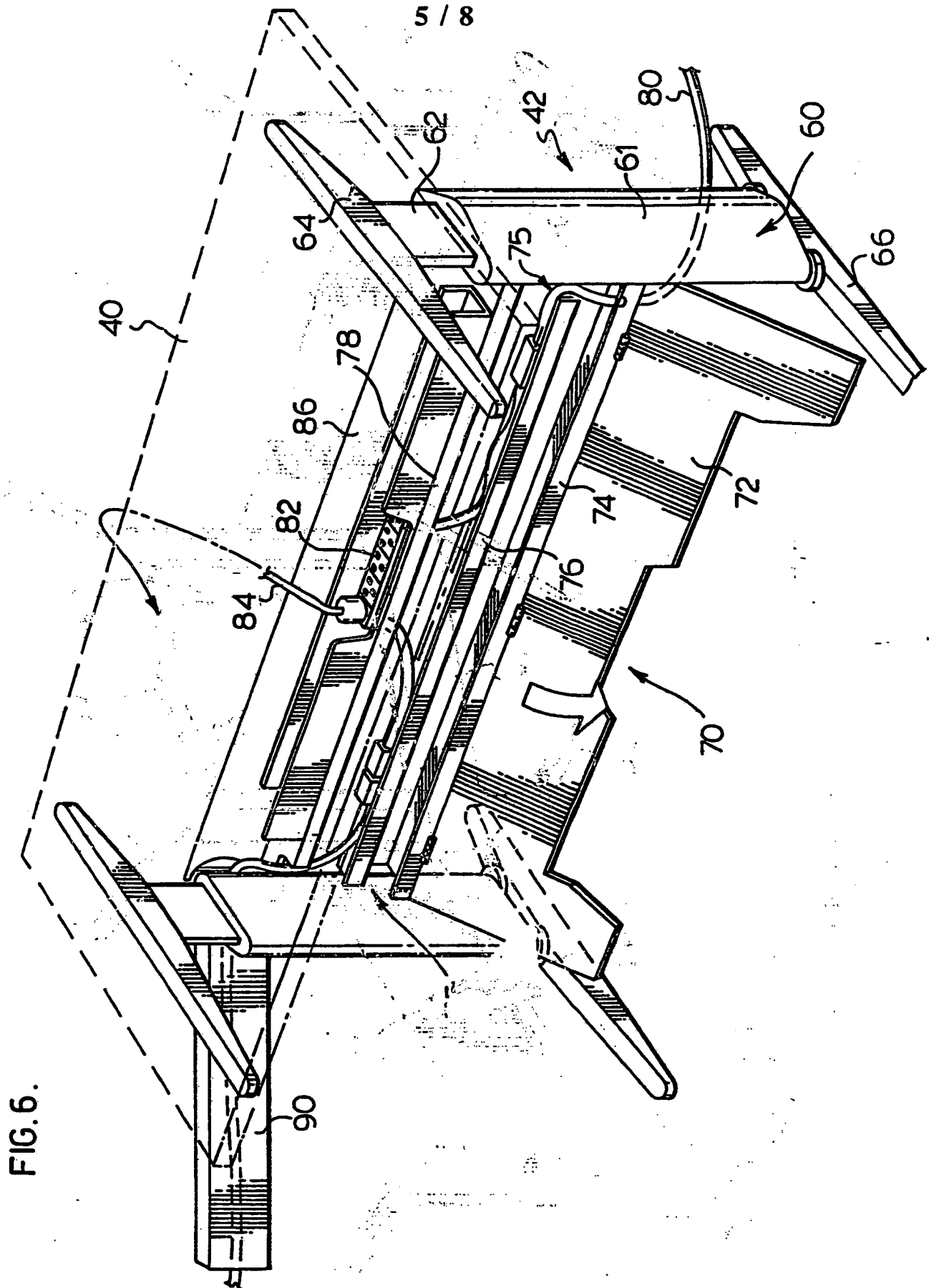


FIG. 5.

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FIG. 5A.





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FIG. 7.

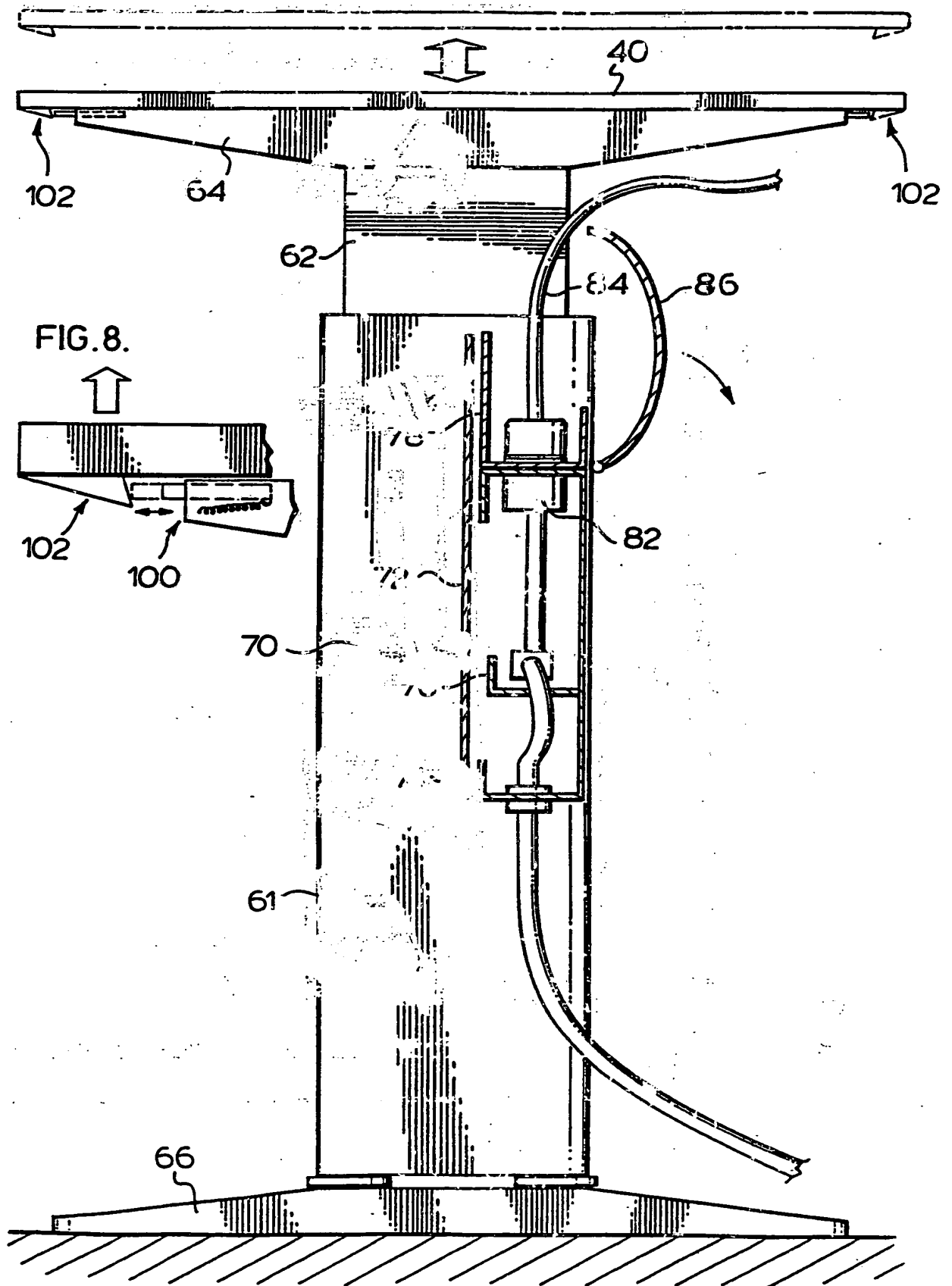


FIG. 8.

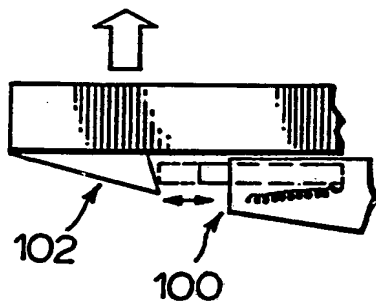


FIG. 10.

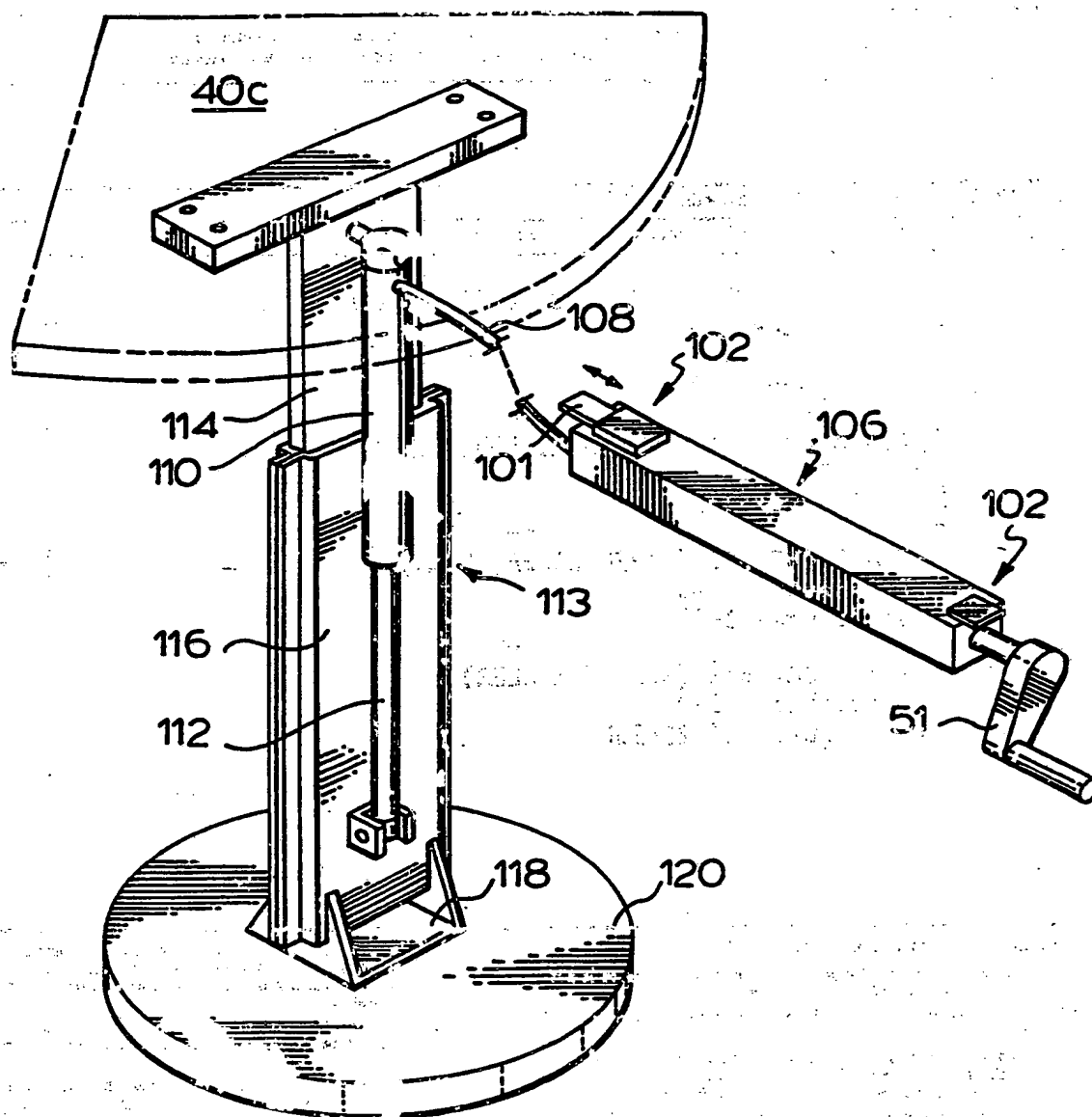
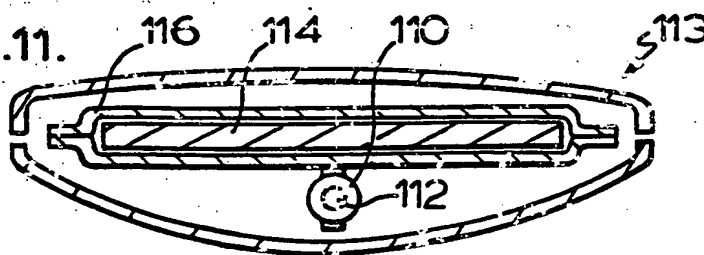
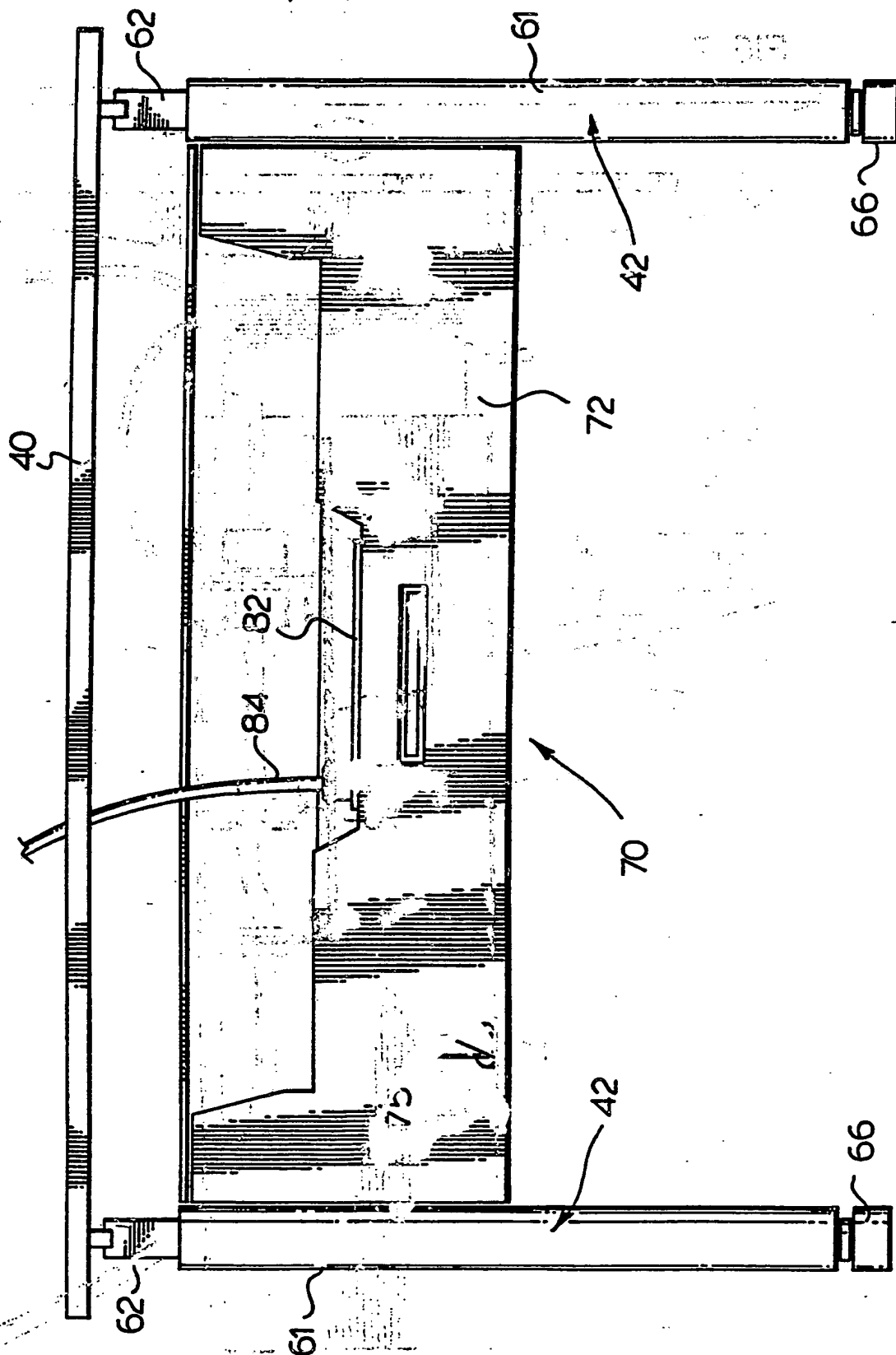


FIG. 11.



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FIG. 9.



International Application No.

PCT/CA 93/00184

I. CLASSIFICATION OF SUBJECT MATTER (If several classification symbols apply, indicate all) ⁶ According to International Patent Classification (IPC) or to both National Classification and IPC Int.Cl. 5 A47B83/00; A47B21/00; A47B13/00; E04B2/74			
II. FIELDS SEARCHED Minimum Documentation Searched ⁷			
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Category ⁹	Citation of Document, ¹¹ with indication, where appropriate, of relevant passages ¹²		Relevant to Claim No. ¹³
X A A A A	EP,A,0 458 264 (C.O.M. S. COOP. R.L.) 27 November 1991 abstract see figures 1-8 EP,A,0 679 331 (HERMAN MILLER, INC) 8 April 1992 see figures 1-7 EP,A,0 462 920 (MOBEL LINEA, S.L.) 27 December 1991 see figures 1-17 US,A,4 884 513 (HERMAN MILLER) 5 December 1989 see figures 17,23-25C		1 2-5,7-28 1,11-28 1-28 1,9
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IV. CERTIFICATION			
Date of the Actual Completion of the International Search 17 AUGUST 1993		Date of Mailing of this International Search Report 17. 09. 93	
International Searching Authority EUROPEAN PATENT OFFICE		Signature of Authorized Officer NOESEN R.F.	

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